

REMARKS

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 1, 4-7 and 10-15 are now present in the application. Claims 1, 4, 7 and 10 have been amended. Claims 14 and 15 have been added. Claims 2, 3, 8 and 9 have been cancelled. Claims 1 and 7 are independent. Reconsideration of this application, as amended, is respectfully requested.

Claim Objections

Claims 5, 6 and 11-13 have been objected to under 37 CFR 1.75(c) as being in improper multiple dependency form.

Applicants had filed a Preliminary Amendment on June 25, 2004 amending claims 5 and 6 to depend from claim 1 and amending claims 11 and 12 to depend from claim 7. Therefore, it is believed that claims 5, 6 and 11-13 are proper single dependent claims. Reconsideration and withdrawal of this objection are respectfully requested. Attached please also find the Preliminary Amendment of June 25, 2004 for the Examiner's reference.

In addition, according to the PAIR system, the above-noted Preliminary Amendment was properly filed on June 25, 2004 and was received by the USPTO. However, the Examiner acknowledged that he did not treat claims 5, 6 and 11-13 on the merits in the first Office Action. Accordingly, if the Examiner raises any rejection(s) to claims 5, 6 and 11-13 in the subsequent Office Action, the subsequent Office Action must be made non-final because the failure to treat claims 5, 6 and 11-13 on the merits and then finally rejecting claims 5, 6 and 11-13 in the subsequent Office Action would be improper. Nonetheless, it is still believed that all pending

claims are allowable. Favorable consideration and allowance of all pending claims are respectfully requested.

Claim Rejections Under 35 U.S.C. § 102

Claims 1-4 and 7-10 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Abe, U.S. Patent No. 5,473,705. This rejection is respectfully traversed.

In light of the foregoing amendments to the claims, Applicants respectfully submit that this rejection has been obviated and/or rendered moot. As the Examiner will note, independent claims 1 and 7 have been amended to respectively incorporate claims 2-3 and 8-9. In particular, independent claims 1 and 7 have been amended to recite “parser means morphologically analyzes and parses the extracted text to obtain a dependency structure of the text by determining the probability of dependency of the entire text by applying a statistical technique using a dependency model, thereby generating a text having a maximum probability as the optimum text.” Applicants respectfully submit that the above recitation as set forth in amended independent claims 1 and 7 is not disclosed nor suggested by the reference relied on by the Examiner.

The present invention provides for the claimed features that in the course of generating the dependency structure containing the keyword in the text generation step, a dependency structure of the text by determination of the probability of dependency of the entire text by applying a statistical technique using a dependency model, thereby generating a text having a maximum probability as an optimum text. (See Specification, page 10, line 25; page 11, lines 1-10.) By applying a statistical technique to morphological analysis method and parsing method in

the course of generating the dependency structure containing the keyword in the text generation step, a text searched and extracted from database (13) can be precisely analyzed in the parser (12a) (See Specification, page 12, lines 12-18.) When a statistical technique is used for determining the probability of dependency through the entire text, as well as obtaining a text having a maximum probability as an optimum text, it is able to shut out an ungrammatical text (see newly added claims 13 and 14.) The statistical technique, for example, includes an ME model, a decision tree, a method of maximum likelihood estimation, etc., as disclosed in the Specification of the present invention.

The Examiner alleged that Abe in col. 7, lines 65- 67 discloses the above claimed features. Applicants respectfully disagree. In fact, Abe is specialized in steps 51-55 as described on col. 7, lines 15 to 64. Abe in col. 7, lines 65-67 simply discloses that if the dependence relationship is ambiguous and cannot be analyzed definitely, the most probable one may be selected or a plurality of candidates may be used at the latter process. Abe nowhere discloses what “the most probable one” is, disclose determining the probability of dependency of the entire text using a dependency model, or teaches how to acquire the most probable one. In addition, the probability of dependency of the entire text is not calculated in any steps of dependence analysis in Abe’s method. Therefore, the above-noted claimed features as recited in claims 1 and 7 are clearly absent from Abe.

Since Abe fails to teach each and every limitation of amended independent claims 1 and 7, Applicants respectfully submit that claims 1 and 7 and their dependent claims clearly define over the teachings of Abe. Accordingly, reconsideration and withdrawal of the rejection under 35 U.S.C. § 102 are respectfully requested.

Additional Claims

Additional claims 14 and 15 have been added for the Examiner's consideration. Applicants respectfully submit that claims 14 and 15 are allowable due to their respective dependence on independent claims 1 and 7, as well as due to the additional recitations included in these claims.

Favorable consideration and allowance of additional claims 14 and 15 are respectfully requested.

CONCLUSION

Since the remaining patents cited by the Examiner have not been utilized to reject the claims, but merely to show the state of the prior art, no further comments are necessary with respect thereto.

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

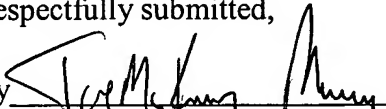
In the event there are any matters remaining in this application, the Examiner is invited to contact Joe McKinney Muncy, Registration No. 32,334 at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicants respectfully petition for a one (1) month extension of time for filing a response in connection with the present application and the required fee is attached herewith.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

By 

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Attachment: Preliminary Amendment dated June 25, 2004

